Lecture-0: Sample For Lecture Notes

1   General guide lines

- Use the environment definitions for lemma, theorem, definition, proof, example, and other such environments you may need, wherever nexessary. Usage of **Definition** for a definition is not acceptable. Different environments are listed in this document below.

- Add the .tex file header in your latex file for the below commands to work (\input{header}, second line of the source file sampleLecture.tex).

- Make sure that there are no spelling mistakes in the scribed notes.

- Use environments such as align, equations, eqnarray or gather to deal with multi-line equations, instead of newline characters.

- Use punctuation in all equations.

- Always make sure that the lecture notes uploaded is complete.

- Any math symbol in a line should be within math environment $$. For example, Y is used to write a math symbol Y.

- Revise your lectures before uploading, so that there no variations in the style in which the document is prepared.

- If you are using figures in the tex file, put them in the Figures folder.

- Please label and caption the figures.

- Use full sentences for captions as well, and even when writing equations.

- Motivate each section with a sentence or two, on why are we studying this?

2 Examples usage of environments

- Equation with multiple cases:

$$A = \begin{cases} 1 & if\ TRUE \\ 0 & if\ FALSE. \end{cases} \tag{1}$$

- Theorem:

  Theorem 2.1. *Theorem goes here*

- Corollary:

  Corollary 2.2. *content...*

- Proposition:

  Proposition 2.3. *content...*

- Lemma:

  Lemma 2.4. *content...*

- Definition:

  Definition 2.5. Definition

- Conjecture:

  Conjecture 2.6. Content...

- Example:

  Example 2.7. Content...

- Assumptions:

  Assumptions 2.8. Content...

- Axiom:

  Axiom 2.9. Content...

- Remark:

  Remark 1. Content...

- Note:

  Note 1. This is a note.

Note 2. Scribed notes that does not follow the guidelines mentioned above attracts penalty.